

Please check the examination details below before entering your candidate information

Candidate surname

Other names

Centre Number

Candidate Number

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## Pearson Edexcel Award

**Tuesday 9 May 2023**

Morning (Time: 1 hour)

Paper  
reference

**ANM20/2A**



## Number and Measure

**Level 2**

**Section A (Calculator)**

### You must have:

Ruler graduated in centimetres and millimetres, protractor, pen, HB pencil, eraser, calculator.

Total Marks

### Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided  
– *there may be more space than you need.*
- **Calculators may be used.**
- If your calculator does not have a  $\pi$  button, take the value of  $\pi$  to be 3.142 unless the question instructs otherwise.



### Information

- The total mark for this section is 50
- The marks for **each** question are shown in brackets  
– *use this as a guide as to how much time to spend on each question.*

### Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

**Turn over ▶**

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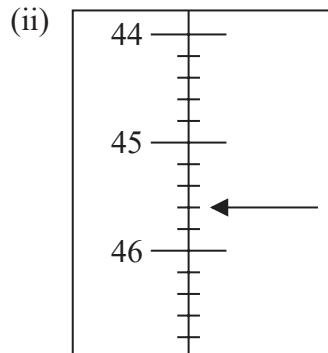
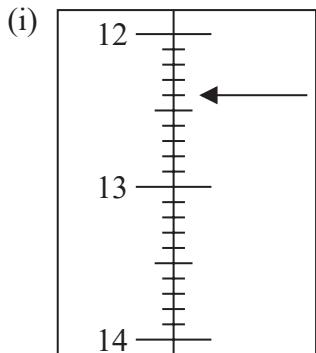
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**Pearson**

**Section A****Answer ALL questions.****Write your answers in the spaces provided.****You must write down all the stages in your working.**

**1** Write down the numbers marked with arrows (  $\longleftarrow$  ).



(i) .....

(ii) .....

**(Total for Question 1 is 2 marks)**

**2** (a) Work out  $-4 + -7$

.....  
(1)

(b) Work out  $-5 \times +3$

.....  
(1)

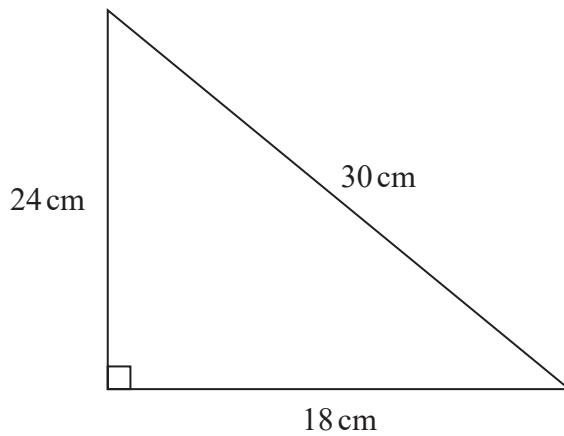
(c) Work out  $-3 - -8$

.....  
(1)**(Total for Question 2 is 3 marks)**

3 Work out  $17.3 \times 4.12$

(Total for Question 3 is 1 mark)

4



Work out the area of this triangle.

..... cm<sup>2</sup>

(Total for Question 4 is 2 marks)

5 Change 1589 Dirhams into pounds (£).  
Use an exchange rate of £1 = 4.54 Dirhams.

£.....

(Total for Question 5 is 2 marks)



6 (a) Find the value of  $35^2$

.....  
(1)

(b) Find the value of  $\sqrt{729}$

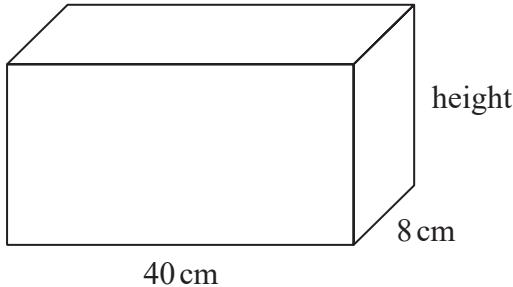
.....  
(1)

(c) Work out the value of  $\sqrt{5^3 - 5^2}$

.....  
(2)

**(Total for Question 6 is 4 marks)**

7 Here is a cuboid.



The volume of this cuboid is  $2880 \text{ cm}^3$

Work out the height of the cuboid.

Give the units with your answer.

**(Total for Question 7 is 3 marks)**



8 Work out 18% of 1200

.....  
(Total for Question 8 is 2 marks)

9 Tom delivers packages.

He gets paid £3.85 for each small package he delivers.  
He gets paid £4.25 for each large package he delivers.

On Monday Tom delivered

32 small packages  
17 large packages

He paid £39.09 tax on the total amount of money he got on Monday for his deliveries.

Work out how much money Tom got to keep on Monday after the deduction of tax.

£.....

(Total for Question 9 is 4 marks)



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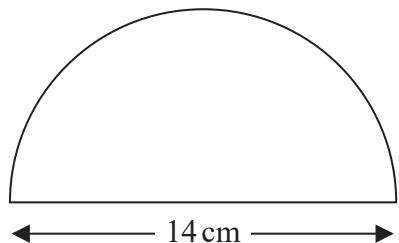
10 Change 120 miles into kilometres.  
(5 miles = 8 kilometres)

..... kilometres

**(Total for Question 10 is 2 marks)**

11 A semicircle has a diameter of 14 cm.

Work out the perimeter of the semicircle.



..... cm

**(Total for Question 11 is 3 marks)**

12 Work out  $5\frac{3}{5} \div 3\frac{1}{2}$

.....

**(Total for Question 12 is 2 marks)**



13 Sue invests £800 for 4 years in an account paying simple interest at a rate of 1.5% per year.

Work out the total amount of simple interest paid to Sue by the end of the 4 years.

£.....

**(Total for Question 13 is 3 marks)**

14 Ami recorded the number of people travelling in each of the first 50 cars that passed her house last Saturday lunchtime.

The table gives information about her results.

Number of people	Number of cars
1	22
2	13
3	9
4	4
5	2

Work out the total number of people in the 50 cars.

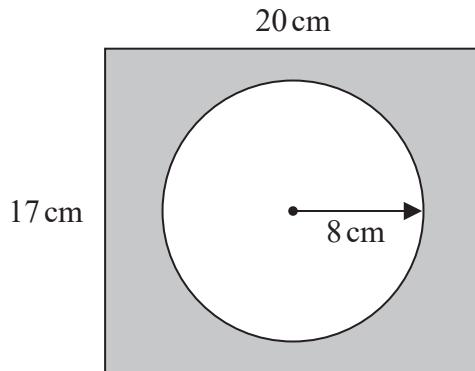
.....

**(Total for Question 14 is 3 marks)**



P 6 9 0 0 9 A 0 7 1 2

15 This shaded shape is made by cutting a circle out of a rectangle.



The rectangle has a width of 17 cm and a length of 20 cm.

The circle has a radius of 8 cm.

Work out the area of the shaded shape.

..... cm<sup>2</sup>

**(Total for Question 15 is 4 marks)**



**16** Find the Highest Common Factor (HCF) of 36 and 48

(Total for Question 16 is 3 marks)

**17** In 2020, the number of cars produced at a factory was 5600  
In 2021, the number of cars produced at the factory was 6888

Work out the percentage increase in the number of cars produced at the factory.

.....%

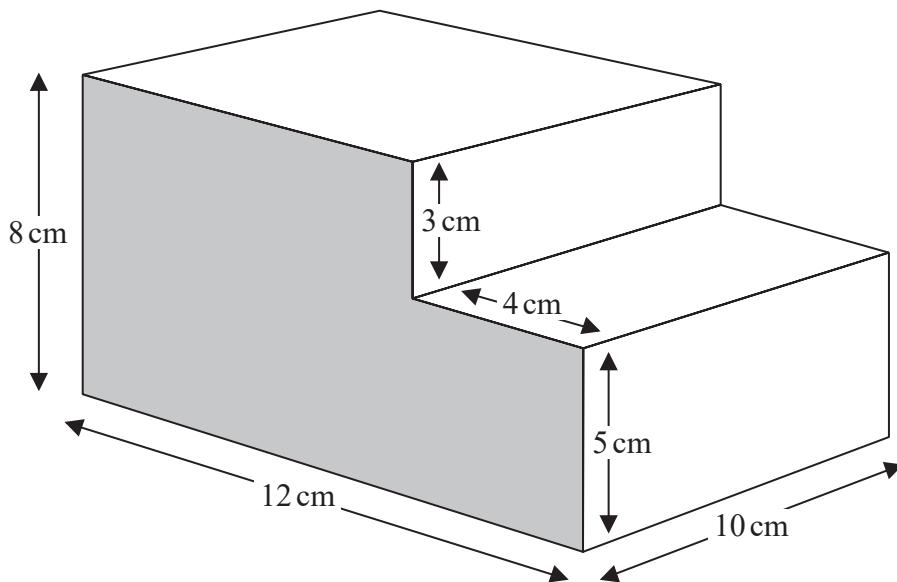
(Total for Question 17 is 3 marks)



P 6 9 0 0 9 A 0 9 1 2

18 Here is a prism.

All the corners are right angles.



(i) Work out the area of the shaded face.

.....  $\text{cm}^2$   
(3)

(ii) Work out the volume of the prism.

.....  $\text{cm}^3$   
(1)

**(Total for Question 18 is 4 marks)**

**TOTAL FOR SECTION A IS 50 MARKS**



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